**Mix and match – vocabulary exercise**

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| **Technological modelling** | Practices used to enhance technological developments and includes functional modelling and prototyping |
| **Functional modelling** | Tests suitability of design, enabling the ongoing evaluation of design concepts for yet-to-be realised **technological outcomes**. Evidence gained is used to establish (or not) a defendable case for its further development. |
| **Prototyping** | The modelling of a realised but yet-to-be-implemented technological outcome. The purpose is to evaluate the fitness for purpose of a technological outcome against the brief and is undertaken to establish (or not) a defendable case for its implementation, refinement or further development. |
| **Practical reasoning**  **(‘what should happen’)** | Provides a basis for exploring acceptability (including socio-cultural and environmental dimensions) surrounding the design concept and realised outcome. That is, the reasoning around decisions as to ‘should it happen?’ in functional modelling and ‘should it be happening?’ in prototyping |
| **Functional reasoning**  **(‘what could happen’)** | Provides a basis for exploring the technical feasibility of the design concept and the realized outcome. That is, ‘how to make it happen’ in the functional modelling phase, and the reasoning behind ‘how it is happening’ in prototyping. |
| **Risk** | The chance of an occurrence (an event, action or lack of action) that will have a negative impact upon objectives. Is measured in terms of consequences and likelihood. |
| **Technological outcome** | Products and systems developed through Technological Practice for a specific purpose. Evaluated in terms of its fitness for purpose, and can be described by their physical and functional nature. |

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| **Technological modelling** |
| **Functional modelling** |
| **Prototyping** |
| **Practical reasoning**  **(‘what should happen’)** |
| **Functional reasoning**  **(‘what could happen’)** |
| **Risk** |
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| The modelling of a realised but yet-to-be-implemented technological outcome. The purpose is to evaluate the fitness for purpose of a technological outcome against the brief and is undertaken to establish (or not) a defendable case for its implementation, refinement or further development. |
| Provides a basis for exploring acceptability (including socio-cultural and environmental dimensions) surrounding the design concept and realised outcome. That is, the reasoning around decisions as to ‘should it happen?’ in functional modelling and ‘should it be happening?’ in prototyping |
| Provides a basis for exploring the technical feasibility of the design concept and the realized outcome. That is, ‘how to make it happen’ in the functional modelling phase, and the reasoning behind ‘how it is happening’ in prototyping. |
| The chance of an occurrence (an event, action or lack of action) that will have a negative impact upon objectives. Is measured in terms of consequences and likelihood. |
| Products and systems developed through Technological Practice for a specific purpose. Evaluated in terms of its fitness for purpose, and can be described by their physical and functional nature. |